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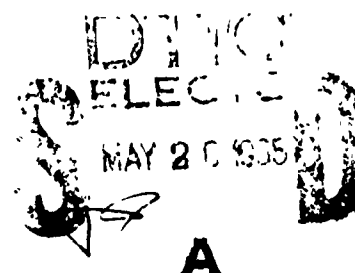
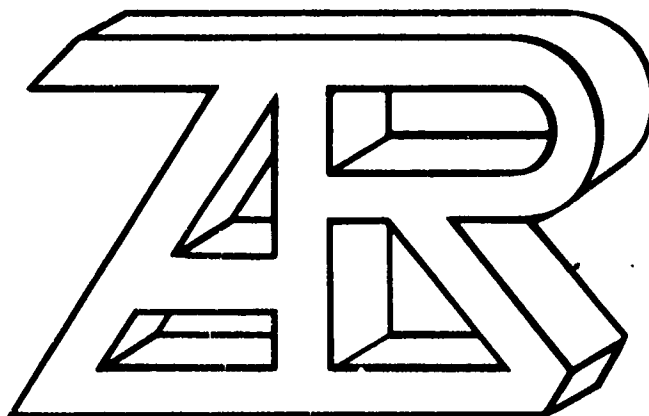
FINAL PROGRESS REPORT

FOR

NATO SEA GNAT PROGRAM

CONTRACT N60921-83-D-0143

DELIVERY ORDER NUMBER 0008 AND 0032



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SUBMITTED TO:

NAVAL SURFACE WEAPONS CENTER

WHITE OAK, SILVER SPRING, MARYLAND 20910

SUBMITTED BY:

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301-421-1856

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REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED			1b. RESTRICTIVE MARKINGS			
2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION/AVAILABILITY OF REPORT Approved for public release; distribution is unlimited			
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE			4. PERFORMING ORGANIZATION REPORT NUMBER(S)			
5. MONITORING ORGANIZATION REPORT NUMBER(S)			6a. NAME OF PERFORMING ORGANIZATION Advanced Technology and Research, Inc.			
6b. OFFICE SYMBOL (If applicable)			7a. NAME OF MONITORING ORGANIZATION Naval Surface Weapons Center Systems Engineering Branch			
6c. ADDRESS (City, State, and ZIP Code) Burtonsville, MD 20866			7b. ADDRESS (City, State, and ZIP Code) White Oak Silver Spring, Maryland 20903-5000			
8a. NAME OF FUNDING/SPONSORING ORGANIZATION NAVELEX			8b. OFFICE SYMBOL (If applicable) PDE 107-5		9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER N60921-83-D-0143	
8c. ADDRESS (City, State, and ZIP Code)			10. SOURCE OF FUNDING NUMBERS			
			PROGRAM ELEMENT NO. 64569N		PROJECT NO.	TASK NO.
			WORK UNIT ACCESSION NO.			
11. TITLE (Include Security Classification) Final Progress Report for NATO SEAGNAT Program (U)						
12. PERSONAL AUTHOR(S) Charles F. Peer						
13a. TYPE OF REPORT Final Progress		13b. TIME COVERED FROM 1-84 TO 12-84		14. DATE OF REPORT (Year, Month, Day) 85-3-4		15. PAGE COUNT 2
16. SUPPLEMENTARY NOTATION						
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)			
FIELD	GROUP	SUB-GROUP	Distraction Cartridge, Seduction Cartridge, MK 36 Launching System			
19. ABSTRACT (Continue on reverse if necessary and identify by block number) Test and Evaluation plans and hazards analyses were prepared. Discussions were held with the Weapon Systems Explosive Safety Review Board (WSESRB) to obtain safety approval.						
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT <input type="checkbox"/> UNCLASSIFIED/UNLIMITED <input checked="" type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS				21. ABSTRACT SECURITY CLASSIFICATION UNCLASSIFIED		
22a. NAME OF RESPONSIBLE INDIVIDUAL W. D. Piper				22b. TELEPHONE (Include Area Code) 202-394-1233		22c. OFFICE SYMBOL G41

FINAL PROGRESS REPORT

ADVANCED TECHNOLOGY & RESEARCH, INC.

CONTRACT N60921-83-D-0143, 20 Jan. - 31 Dec. '84

NATO SEA GNAT PROGRAM

DELIVERY ORDER NO. 0008 AND 0032

PROGRESS:

This report is being written in compliance with the requirements of Contract N60921-83-D-0143 between the U.S. Naval Surface Weapons Center and the Advanced Technology and Research, Inc., of Burtonsville, MD.. The details of this report extend from 20 January 1984 through 31 December 1984 and summarizes my activities during this period.

At the beginning of the reporting period the program consisted of three decoys. The LR Seduction cartridge was cancelled in February, 1948, due to numerous failures and large overruns. The RF Seduction cartridge was approved for production in mid 1984. The RF Distraction cartridge is the remaining cartridge being developed and is scheduled for TECHEUAL in early summer of 1985 with OPEUAL due in September-October time frame.

In the conduct of the services provided for by the contract, seven trips were made to the Hycor facility in Woburn, Mass.. These trips were made on the following dates and were basically scheduled and planned for by the NSG Project Office (PO) as a program review:

January 16-20

April 9-12



May 23-25

June 20-22

July 17-19

July 24-26

November 12-15

In addition to the above trip, several trips were made to NSWC/DL, NTS (the testing sub-contractor of Hycor) and to SWL, McLean, VA.. An average of one day per week was spent at the PO with approximately five visits to the Weapon Systems Explosive Safety Review Board (WSESRB) in the company of the PO. These visits were planned by me to acquaint the PO with the workings of the WSESRB and to present program reviews for the Board's approval.

Under the terms of the contract, it is my task to provide the PO with safety and reliability expertise. In the performance of this numerous test and evaluation plans, together with hazards analysis, were prepared. These were discussed with members of the PO as well as the WSESRB for prior approval of the program. In the preparation of these plans, I uncovered what I believed to be potential problems with the development program and the launching system. These problem areas were brought to the attention of the PO. Some of the problems deal with the Mk 36 Launching System and the impact of the new round on this operational system. The Mk 36 system as currently installed aboard U.S. ships was never intended to withstand the pressures and forces imposed by the new round. The cost of adding this new round to our decoy inventory, has not been fully analyzed.

A more detailed report and analysis of the above assignments has been prepared and submitted to Mr. W. Piper, G-41, NSWC. As stated in that report, the opinions expressed here are my own and do not reflect the opinions of others.